

**Instruction Sheet**  
**AquaMotionHot One AMH1K-RODR**  
**With ODR Undersink Valve**  
**To be used with an On Call Device**

**APPLICATION**

The AquaMotion Hot One circulators are designed to deliver hot water at a point of use from a hot water tank heater (tankless) when an On Call device is activated. Water savings can be as great as 12,000 – 15,000 gallons per year for a family of four. The AquaMotion Hot One circulator together with the Aquamotion ODR Undersink Valve are designed to be user friendly, reliable and to produce a professional installation.

**WARNING:** Risk of electric shock. The AMH1K-RODR kits are supplied with a grounding conductor and grounding type attachment plug. To reduce the risk of electric shock, be certain that it is connected only to a properly grounding type receptacle.

**WARNING:** When installing the circulator observe all applicable electrical and plumbing codes.

**WARNING:** To avoid electrical shock, disconnect power prior to connecting or disconnecting circulator.

**WARNING:** Risk of electric shock. This circulator has not been investigated for use in swimming pool or marine areas.

**WARNING:** This circulator is acceptable for indoor use only. Employer uniquement a l'interieur.

**CAUTION:** This circulator has been evaluated for use with water only. The suitability of this circulator for use with liquids other than water is the responsibility of the end user.

**CAUTION:** When making electric connections, do not apply excessive external loads to the junction box.

**SYSTEM REQUIREMENTS**

- Minimum water pressure 20 psi
- Maximum water pressure 125 psi
- Maximum water temperature 230F (110C)

**SHIPMENT INSPECTION**

Examine all components carefully to ensure they are all present and they have not been damage in transit to you. Care should be taken to avoid dropping or mishandling the circulator. Damage to the circulator may occur if it is dropped.

**KIT CONTENTS**

- The AMH1K-RODR "Hot One" package includes
- (1) Pump, model AMR-SFV1L with pre-wired 10 foot grounded flexible cord
  - (2) 3/4" FNPT Stainless Flange Kit
  - (1) ODR Valve

- (1) 3/8" compression x 1/2" MPT x 3/8" compression tee
- (1) 1/2" FPT x 1/2" FPT Braided stainless hose

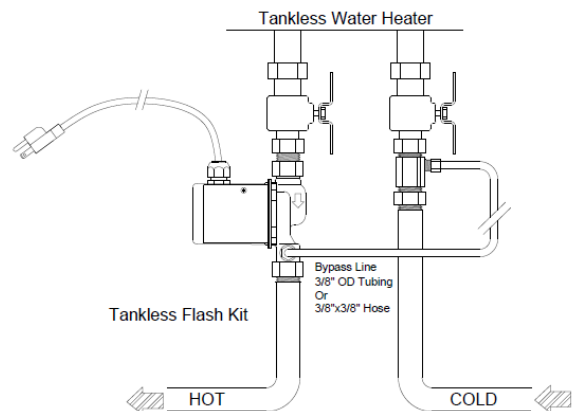
**REQUIRED TOOLS**

- 2 - Pipe wrenches which open to at least 1 1/2"
- 2 - Adjustable wrench which opens to at least 1 1/2"

- 5/8" and a 11/16" open end wrenches
- 1 - Teflon tape or pipe dope for flange connection

**Customer Required Components**

- (2) Adapters from 3/4" male NPT to match pipe size and type in system and pipe



hangers

**INSTALLATION INSTRUCTIONS**

1. Turn off the power to your hot water heater at the circuit breaker.
2. Close the valve on the cold water supply line to the tankless hot water heater or hot water tank\*. If you do not have a valve on the cold water supply line, close the main water valve to the house.
3. Attach a hose to the drain valve on your system and run the hose to a drain or into buckets.
4. Open the drain valve and allow the system to drain down. Note: Opening the faucet at a sink may speed the draining process.
5. After the system has drained, close the drain valve.

6. Choose a location in the hot water supply line that will accommodate the circulator both 2 flanges and the 3/4" male NPT adapters at match your pipe size and type.
7. Cut the hot water supply line and remove a section to accommodate the needed length.
8. Apply Pipe Dope or Teflon tape to the threads of the adapters and install the adapters onto the flanges supplied in the kit.
9. Attach the adapters and flanges to the cut ends of the pipes. Note: Align the flanges with one another to match the circulator flanges.
10. Place one of the gaskets supplied in the kit between the circulator discharge and the flange previously mounted on the hot water supply line. Use the bolts and nuts supplied in the kit to attach the flange to the circulator. Note: The discharge end of the circulator is the end the arrow on the stainless casting is pointing at. Install the circulator with the flow directed to the cold point of use. Tighten both nuts.
11. Place the other gaskets supplied in the kit between the circulator inlet and the flange mounted previously on the hot water supply line. Use the bolts and nuts supplied in the kit to attach the flange to the circulator. Tighten both nuts.
12. Open the valve in the cold water supply line to the hot water heater. Check for leaks at the fittings. If a leak occurs retighten or refit the joint. Note: To allow trapped air to escape, open a hot water faucet and allow the water to run until it is clear of bubbles.
13. Turn power on for the hot water heater at the circuit breaker.

## Valve Installation Installation and Operating Instructions

**Warning:** This is not an anti-scald valve.

### Valve Installation

**Note:** Pipe dope and Teflon tape are not required for any of the valve threads.

The valve is normally installed at the faucet that is furthest away from the hot water tankless heater. If there are separate hot water branches in the residence, additional valves may be required.

- 1) Close both the hot and cold angle shut off valves under the sink.
- 2) Open both the hot and cold water faucets to relieve the water pressure.
- 3) Place a pan or rag below the connections to catch any water that may leak from the risers.
- 4) Disconnect the riser pipes or hoses from the angle shut off valves.
- 5) Install the ODR valve onto the Cold Water Angle Stop using the 3/8" compression nut on the ODR valve.
- 6) Attach the cold water riser to the ODR valve.
- 7) Install the Tee from the kit to the Hot Water Angle Shut Off valve using the 3/8" compression nut on the Tee.
- 8) Attach the 1/2" hose from the kit between the 1/2" connection on the ODR valve and the 1/2" connection on the Tee.
- 9) Open the hot water angle shut off valve and the cold water faucet to purge air from the line and valve.
- 10) Close the cold water faucet and open the cold angle stop valve.

**Note:** The spacing dimensions between angle shut offs vary. Position the valve and Tee hose connections to suit your system.

